



## INGÉNIERIE D'UN OBJET DE GRANDE CONSOMMATION

### ENGINEERING OF A CONSUMER OBJECT

Lecturers: José PENUELAS

| Lecturers : 16.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 12.0 | Project : 0.0 | Language : FR

#### Objectives

---

The main objective of this course is to show to the students who have not previously followed scientific studies the implication and entanglement of engineering sciences and techniques from a given object. This module is an opportunity to introduce the multidisciplinary approach specific to the general engineer by exposing the concepts and tools of physics, materials science, signal processing, automation that exist in the design and the realization of consumer goods such as the optical disc.

**Keywords :** Engineering, Matériaux, Physics, Signal processing, Automation, Design

---

#### Programme

- Introduction
- Physics
- Material science
- Design
- Signal processing
- Automation

#### Learning outcomes

- Understand the multi-disciplinary nature of the design of everyday objects.
- Possess some fundamentals in the disciplines involved.

#### Independent study

Objectifs :

Méthodes :

#### Core texts

#### Assessment

Final graduation will take into account the practicals session (know\_how = 1/3) and the final exam (knowledge = 2/3).